


AN/PRC-117G RPA			
		TAMCN: H0016	
		ID: 12108A	
		NSN: 6130-01-597-6193	
Functional Description			
The AN/PRC 117G RPA (also called the Merlin-3) provides input power to the AN/PRC-117G radio and has an auxiliary output to power auxiliary equipment. The Merlin-3 has a DC input connector, DC output connector, radio connector and battery connector. The Merlin-3 comes with a 120W AC/DC input converter, DC input cable from a solar panel, a DC input cable from a zinc-air battery, transportation case, Operation Manual, and Quick Card. All other cables are ordered separately. The Merlin-3 operates from DC power (AC using converter). For a low voltage input the Merlin-3 will cutoff power to the auxiliary output to ensure enough power to the radio. The Merlin-3 will charge a BB-2590/U or BB-390B/U battery when all available power is not being used by the radio or auxiliary output.			
Technical Description			
<u>117G RPA</u>		<u>Dimensions</u>	
Manufacturer:	Iris Technology	Length (in):	13.5
Model:	Merlin-3	Width (in):	12.0
		Height (in):	6.0
<u>Power</u>		Weight (lbs):	8.8
Input:	9-36 VDC	Volume (ft³):	0.56
Output:	Radio, 26.5 VDC Auxiliary, 12-32 VDC	<u>Warranty</u>	
Frequency (Hz):		2 years from date of purchase	
<u>Cable Input</u>	<u>Connects from:</u>	<u>Cable Output</u>	<u>Connects to:</u>
78535-102017	Auto accessory connector	78535-102041	GD8000 Laptop
78535-102018	NATO equipped vehicle	78535-102024	10 ft extension cable
78535-102019	Solar panel	78535-102025	Auto Accessory 12 VDC
78535-102020	10 ft extension cable	78535-102026	Panasonic Toughbook
78535-102021	Zinc-Air Battery	78535-102027	Vehicle battery - clamps
78535-102022	Vehicle battery-clamps	78535-102028	Speakers - with custom connector
78535-102091	8 ft extension cable		
78535-102205	Spaces to Merlin		
Climatic Conditions: Operating -40°F to 131°F. Storage Temperature Range: -59°F to + 160°F.			